Title (en)

A hearing aid with signal enhancement

Title (de)

Hörgerät mit Signalverbesserung

Title (fr)

Aide auditive dotée d'un meilleur signal

Publication

EP 2611215 A1 20130703 (EN)

Application

EP 11196247 A 20111230

Priority

EP 11196247 A 20111230

Abstract (en)

A new binaural hearing aid system is provided that compensates for a hearing impaired user's loss of ability to understand speech in noise using a new method comprising the steps of providing at least one microphone audio signal (18, 20) in response to sound, and providing an estimate of one of a target signal and a noise signal (30) based on the at least one audio signal, phase shifting the estimate of one of the target signal (26) and the noise signal (30), and in which the phase shifted estimate of one of the target signal (26) and the noise signal (30) has substantially providing a phase shifted signal representing the at least one microphone audio signal substituted the respective original one of the target signal (26) and the noise signal (30), and transmitting a signal representing the phase shifted signal towards one of the eardrums of a user of the binaural hearing aid system (10), and transmitting a signal representing the at least one microphone audio signal towards the other one of the eardrums of the user.

IPC 8 full level

H04R 25/00 (2006.01)

CPC (source: EP)

H04R 25/552 (2013.01); H04R 25/407 (2013.01); H04R 2225/43 (2013.01)

Citation (applicant)

WO 0207479 A1 20020124 - GN RESOUND AS [DK], et al

Citation (search report)

- [XAYI] WO 0203749 A2 20020110 - GN RESOUND CORP [US]
- [YA] EP 1879426 A2 20080116 - STARKEY LAB INC [US]

Cited by

WO2015124211A1; US10542353B2; US10863288B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2611215 A1 20130703; **EP 2611215 B1 20160420**; DK 2611215 T3 20160704; DK 3059979 T3 20200608; EP 3059979 A1 20160824; EP 3059979 B1 20200304

DOCDB simple family (application)

EP 11196247 A 20111230; DK 11196247 T 20111230; DK 16164585 T 20111230; EP 16164585 A 20111230